

RAW SEQUENCE LISTING  
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/002,784  
Source: 0192  
Date Processed by STIC: 5/9/02

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
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1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
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Revised 01/29/2002



Does Not Comply  
Corrected Diskette Needed

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/002,784

DATE: 05/09/2002  
TIME: 14:08:51

Input Set : A:\Sequence.txt  
Output Set: N:\CRF3\05092002\J002784.raw

W--> *3 / 33* *delete* 9 <110> APPLICANT: Ulrich, Robert G.  
11 <120> TITLE OF INVENTION: Bacterial Superantigen Vaccines  
13 <130> FILE REFERENCE: 003/233/SAP  
15 <140> CURRENT APPLICATION NUMBER: 10/002,784  
C--> 17 <141> CURRENT FILING DATE: 2002-04-23  
19 <150> PRIOR APPLICATION NUMBER: 08/882,431; 09/144,776  
W--> 21 <151> PRIOR FILING DATE: 97-06-25; 98-09-01  
23 <160> NUMBER OF SEQ ID NOS: 40  
25 <170> SOFTWARE: Apple Macintosh Microsoft Word 6.0

## ERRORED SEQUENCES

856 <210> SEQ ID NO: 17 *nos. differ*  
858 <211> LENGTH: 28  
859 <212> TYPE: DNA  
860 <213> ORGANISM: Artificial sequence  
W--> 861 <220> FEATURE: *ok*  
862 <223> OTHER INFORMATION: primer  
E--> 863 <400> SEQUENCE: 18  
865 ctcgaagag gtacatatgc aacaagac 28  
1121 <210> SEQ ID NO: 26  
1123 <211> LENGTH: 220  
1124 <212> TYPE: PRT  
1125 <213> ORGANISM: Artificial sequence  
W--> 1126 <220> FEATURE:  
1127 <223> OTHER INFORMATION: mutant streptococcal pyrogenic exotoxin-A  
W--> 1128 <400> SEQUENCE: 26  
1130 Met Gln Gln Asp Pro Asp Pro Ser Gln Leu  
1131 5 10  
1132 His Arg Ser Ser Leu Val Lys Asn Leu Gln  
1133 15 20  
1134 Asn Ile Tyr Phe Leu Tyr Glu Gly Asp Pro  
1135 25 30  
1136 Val Thr His Glu Asn Val Lys Ser Val Asp  
1137 35 40  
1138 Gln Leu Arg Ser His Asp Leu Ile Tyr Asn  
1139 45 50  
1140 Val Ser Gly Pro Asn Tyr Asp Lys Leu Lys  
1141 55 60  
1142 Thr Glu Leu Lys Asn Gln Glu Met Ala Thr  
1143 65 70

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1144 Leu Phe Lys Asp Lys Asn Ile Asp Ile Tyr  
1145 75 80  
1146 Gly Val Glu Tyr Tyr His Leu Cys Tyr Leu  
1147 85 90  
1148 Cys Glu Asn Ala Glu Arg Ser Ala Cys Ile  
1149 95 100  
1150 Gly Gly Val Thr Asn Arg Glu Gly Asn His  
E--> 1151 105 100 → 110  
1152 Leu Glu Ile Pro Lys Lys Ile Val Val Lys  
1153 115 120  
1154 Val Ser Ile Asp Gly Ile Gln Ser Leu Ser  
1155 125 130  
1156 Phe Asp Ile Glu Thr Asn Lys Lys Met Val  
1157 135 140  
1158 Thr Ala Gln Glu Leu Asp Tyr Lys Val Arg  
1159 145 150  
1160 Lys Tyr Leu Thr Asp Asn Lys Gln Leu Tyr  
1161 155 160  
1162 Thr Asn Gly Pro Ser Lys Tyr Glu Thr Gly  
1163 165 170  
1164 Tyr Ile Lys Phe Ile Pro Lys Asn Lys Glu  
1165 175 180  
1166 Ser Phe Trp Phe Asp Phe Phe Pro Glu Pro  
1167 185 190  
1168 Glu Phe Thr Gln Ser Lys Tyr Leu Met Ile  
1169 195 200  
1170 Tyr Lys Asp Asn Glu Thr Leu Asp Ser Asn  
1171 205 210  
1172 Thr Gln Ile Glu Val Tyr Leu Thr Thr Lys  
1173 215 220  
1324 <210> SEQ ID NO: 32  
1326 <211> LENGTH: 82  
1327 <212> TYPE: PRT  
1328 <213> ORGANISM: staphylococcal enterotoxin A  
1329 <223> OTHER INFORMATION: partial sequence as shown in Figure 3  
E--> 1330 <400> SEQUENCE: 32  
1332 Ser His Asp Gln Phe Leu Gln His Thr Ile  
1333 5 10  
1334 Leu Phe Lys Gly Phe Phe Thr Asp His Ser  
1335 15 20  
1336 Trp Tyr Asn Asp Leu Leu Val Asp Phe Asp  
1337 25 30  
1338 Ser Lys Asp Ile Val Asp Lys Tyr Lys Gly  
1339 35 40  
1340 Lys Lys Val Asp Leu Tyr Gly Ala Tyr Tyr  
1341 45 50  
1342 Gly Tyr Gln Cys Ala Gly Gly Thr Pro Asn  
1343 55 60  
1344 Lys Thr Ala Cys Met Tyr Gly Gly Val Thr

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Error: L2207 is mandatory when L2237 is present per Sect. 1.823  
of the new rule

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1345 65 70  
1346 Leu His Asp Asn Asn Arg Leu Thr Glu Glu  
1347 75 80  
1348 Lys Lys  
1350 <210> SEQ ID NO: 33  
1352 <211> LENGTH: 82  
1353 <212> TYPE: PRT  
1354 <213> ORGANISM: staphylococcal enterotoxin D  
1355 <223> OTHER INFORMATION: partial sequence as shown in Figure 3  
E--> 1356 <400> SEQUENCE: 33  
1358 Thr Gly Asp Gln Phe Leu Glu Asn Thr Leu  
1359 5 10  
1360 Leu Tyr Lys Lys Phe Phe Thr Asp Leu Ile  
1361 15 20  
1362 Asn Phe Glu Asp Leu Leu Ile Asn Phe Asn  
1363 25 30  
1364 Ser Lys Glu Met Ala Gln His Phe Lys Ser  
1365 35 40  
1366 Lys Asn Val Asp Val Tyr Pro Ile Arg Tyr  
1367 45 50  
1368 Ser Ile Asn Cys Tyr Gly Gly Glu Ile Asp  
1369 55 60  
1370 Arg Thr Ala Cys Thr Tyr Gly Gly Val Thr  
1371 65 70  
1372 Pro His Glu Gly Asn Lys Leu Lys Glu Arg  
1373 75 80  
1374 Lys Lys  
1377 <210> SEQ ID NO: 34  
1379 <211> LENGTH: 82  
1380 <212> TYPE: PRT  
1381 <213> ORGANISM: staphylococcal enterotoxin E  
1382 <223> OTHER INFORMATION: partial sequence as shown in Figure 3  
E--> 1383 <400> SEQUENCE: 34  
1385 Ser Asp Asp Gln Phe Leu Glu Asn Thr Leu  
1386 5 10  
1387 Leu Phe Lys Gly Phe Phe Thr Gly His Pro  
1388 15 20  
1389 Trp Tyr Asn Asp Leu Leu Val Asp Leu Gly  
1390 25 30  
1391 Ser Lys Asp Ala Thr Asn Lys Tyr Lys Gly  
1392 35 40  
1393 Lys Lys Val Asp Leu Tyr Gly Ala Tyr Tyr  
1394 45 50  
1395 Gly Tyr Gln Cys Ala Gly Gly Thr Pro Asn  
1396 55 60  
1397 Lys Thr Ala Cys Met Tyr Gly Gly Val Thr  
1398 65 70  
1399 Leu His Asp Asn Asn Arg Leu Thr Glu Glu  
1400 75 80

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Input Set : A:\Sequence.txt

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1401 Lys Lys

1403 &lt;210&gt; SEQ ID NO: 35

1405 &lt;211&gt; LENGTH: 89

1406 &lt;212&gt; TYPE: PRT

1407 &lt;213&gt; ORGANISM: staphylococcal enterotoxin B

1408 &lt;223&gt; OTHER INFORMATION: partial sequence as shown in Figure 3

E--&gt; 1409 &lt;400&gt; SEQUENCE: 35

1411 Ser Ile Asp Gln Phe Leu Tyr Phe Asp Leu

1412 5 10

1413 Ile Tyr Ser Ile Lys Asp Thr Lys Leu Gly

1414 15 20

1415 Asn Tyr Asp Asn Val Arg Val Glu Phe Lys

1416 25 30

1417 Asn Lys Asp Leu Ala Asp Lys Tyr Lys Asp

1418 35 40

1419 Lys Tyr Val Asp Val Phe Gly Ala Asn Tyr

1420 45 50

1421 Tyr Gln Cys Tyr Phe Ser Lys Lys Thr Asn

1422 55 60

1423 Asp Ile Asn Ser His Gln Thr Asp Lys Arg

1424 65 70

1425 Lys Thr Cys Met Tyr Gly Gly Val Thr Glu

1426 75 80

1427 His Asn Gly Asn Gln Leu Asp Lys Tyr

1428 85

1430 &lt;210&gt; SEQ ID NO: 36

1432 &lt;211&gt; LENGTH: 89

1433 &lt;212&gt; TYPE: PRT

1434 &lt;213&gt; ORGANISM: staphylococcal enterotoxin C1

1435 &lt;223&gt; OTHER INFORMATION: partial sequence as shown in Figure 3

E--&gt; 1436 &lt;400&gt; SEQUENCE: 36

1438 Ser Val Asp Lys Phe Leu Ala His Asp Leu

1439 5 10

1440 Ile Tyr Asn Ile Ser Asp Lys Lys Leu Lys

1441 15 20

1442 Asn Tyr Asp Lys Val Lys Thr Glu Leu Leu

1443 25 30

1444 Asn Glu Gly Leu Ala Lys Lys Tyr Lys Asp

1445 35 40

1446 Glu Val Val Asp Val Tyr Gly Ser Asn Tyr

1447 45 50

1448 Tyr Val Asn Cys Tyr Phe Ser Ser Lys Asp

1449 55 60

1450 Asn Val Gly Lys Val Thr Gly Gly Lys Thr

1451 65 70

1452 Cys Met Tyr Gly Ile Thr Lys His Glu

1453 75 80

1454 Gly Asn His Phe Asp Asn Gly Asn Leu

1455 85

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Input Set : A:\Sequence.txt  
Output Set: N:\CRF3\05092002\J002784.raw

1457 <210> SEQ ID NO: 37  
1459 <211> LENGTH: 89  
1460 <212> TYPE: PRT  
1461 <213> ORGANISM: staphylococcal enterotoxin C2  
1462 <223> OTHER INFORMATION: partial sequence as shown in Figure 3

E--> 1463 <400> SEQUENCE: 37  
1465 Ser Val Asp Lys Phe Leu Ala His Asp Leu  
1466 5 10  
1467 Ile Tyr Asn Ile Ser Asp Lys Lys Leu Lys  
1468 15 20  
1469 Asn Tyr Asp Lys Val Lys Thr Glu Leu Leu  
1470 25 30  
1471 Asn Glu Asp Leu Ala Lys Lys Tyr Lys Asp  
1472 35 40  
1473 Glu Val Val Asp Val Tyr Gly Ser Asn Tyr  
1474 45 50  
1475 Tyr Val Asn Cys Tyr Phe Ser Ser Lys Asp  
1476 55 60  
1477 Asn Val Gly Lys Val Thr Gly Gly Lys Thr  
1478 65 70  
1479 Cys Met Tyr Gly Gly Ile Thr Lys His Glu  
1480 75 80  
1481 Gly Asn His Phe Asp Asn Gly Asn Leu  
1482 85  
1484 <210> SEQ ID NO: 38  
1486 <211> LENGTH: 89  
1487 <212> TYPE: PRT  
1488 <213> ORGANISM: staphylococcal enterotoxin C3  
1489 <223> OTHER INFORMATION: partial sequence as shown in Figure 3

E--> 1490 <400> SEQUENCE: 38  
1492 Ser Val Asp Lys Phe Leu Ala His Asp Leu  
1493 5 10  
1494 Ile Tyr Asn Ile Ser Asp Lys Lys Leu Lys  
1495 15 20  
1496 Asn Tyr Asp Lys Val Lys Thr Glu Leu Leu  
1497 25 30  
1498 Asn Glu Asp Leu Ala Lys Lys Tyr Lys Asp  
1499 35 40  
1500 Glu Val Val Asp Val Tyr Gly Ser Asn Tyr  
1501 45 50  
1502 Tyr Val Asn Cys Tyr Phe Ser Ser Lys Asp  
1503 55 60  
1504 Asn Val Gly Lys Val Thr Gly Gly Lys Thr  
1505 65 70  
1506 Cys Met Tyr Gly Gly Ile Thr Lys His Glu  
1507 75 80  
1508 Gly Asn His Phe Asp Asn Gly Asn Leu  
1509 85  
1511 <210> SEQ ID NO: 39

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Output Set: N:\CRF3\05092002\J002784.raw

1513 <211> LENGTH: 79  
1514 <212> TYPE: PRT  
1515 <213> ORGANISM: streptococcal pyrogenic enterotoxin a  
1516 <223> OTHER INFORMATION: partial sequence as shown in Figure 3  
E--> 1517 <400> SEQUENCE: 39  
1519 Ser Val Asp Gln Leu Leu Ser His Asp Leu  
1520 5 10  
1521 Ile Tyr Asn Val Ser Gly Pro Asn Tyr Asp  
1522 15 20  
1523 Lys Leu Lys Thr Glu Leu Lys Asn Gln Glu  
1524 25 30  
1525 Met Ala Thr Leu Phe Lys Asp Lys Asn Val  
1526 35 40  
1527 Asp Ile Tyr Gly Val Glu Tyr Tyr His Leu  
1528 45 50  
1529 Cys Tyr Leu Cys Glu Asn Ala Glu Arg Ser  
1530 55 60  
1531 Ala Cys Ile Tyr Gly Gly Val Thr Asn His  
1532 65 70  
1533 Glu Gly Asn His Leu Glu Ile Pro Lys  
1534 75  
1536 <210> SEQ ID NO: 40  
1538 <211> LENGTH: 73  
1539 <212> TYPE: PRT  
1540 <213> ORGANISM: toxin shock syndrome toxin-1  
1541 <223> OTHER INFORMATION: partial sequence as shown in Figure 3  
E--> 1542 <400> SEQUENCE: 40  
1544 Val Leu Asp Asn Ser Leu Gly Ser Met Arg  
1545 5 10  
1546 Ile Lys Asn Thr Asp Gly Ser Ile Ser Leu  
1547 15 20  
1548 Ile Ile Phe Pro Ser Pro Tyr Tyr Ser Pro  
1549 25 30  
1550 Ala Phe Thr Lys Gly Glu Lys Val Asp Leu  
1551 35 40  
1552 Asn Thr Lys Arg Thr Lys Lys Ser Gln His  
1553 45 50  
1554 Thr Ser Glu Gly Thr Tyr Ile His Phe Gln  
1555 55 60  
1556 Ile Ser Gly Val Thr Asn Thr Glu Lys Leu  
1557 65 70  
1558 Pro Thr Pro

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/002,784

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Input Set : A:\Sequence.txt  
Output Set: N:\CRF3\05092002\J002784.raw

L:3 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:  
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:21 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:32 M:283 W: Missing Blank Line separator, <220> field identifier  
L:34 M:283 W: Missing Blank Line separator, <400> field identifier  
L:64 M:283 W: Missing Blank Line separator, <220> field identifier  
L:66 M:283 W: Missing Blank Line separator, <400> field identifier  
L:126 M:283 W: Missing Blank Line separator, <220> field identifier  
L:128 M:283 W: Missing Blank Line separator, <400> field identifier  
L:155 M:283 W: Missing Blank Line separator, <220> field identifier  
L:214 M:283 W: Missing Blank Line separator, <220> field identifier  
L:216 M:283 W: Missing Blank Line separator, <400> field identifier  
L:267 M:283 W: Missing Blank Line separator, <220> field identifier  
L:269 M:283 W: Missing Blank Line separator, <400> field identifier  
L:331 M:283 W: Missing Blank Line separator, <220> field identifier  
L:333 M:283 W: Missing Blank Line separator, <400> field identifier  
L:384 M:283 W: Missing Blank Line separator, <220> field identifier  
L:386 M:283 W: Missing Blank Line separator, <400> field identifier  
L:448 M:283 W: Missing Blank Line separator, <220> field identifier  
L:450 M:283 W: Missing Blank Line separator, <400> field identifier  
L:494 M:283 W: Missing Blank Line separator, <220> field identifier  
L:496 M:283 W: Missing Blank Line separator, <400> field identifier  
L:552 M:283 W: Missing Blank Line separator, <220> field identifier  
L:583 M:283 W: Missing Blank Line separator, <220> field identifier  
L:585 M:283 W: Missing Blank Line separator, <400> field identifier  
L:641 M:283 W: Missing Blank Line separator, <220> field identifier  
L:643 M:283 W: Missing Blank Line separator, <400> field identifier  
L:680 M:283 W: Missing Blank Line separator, <220> field identifier  
L:682 M:283 W: Missing Blank Line separator, <400> field identifier  
L:744 M:283 W: Missing Blank Line separator, <220> field identifier  
L:746 M:283 W: Missing Blank Line separator, <400> field identifier  
L:800 M:283 W: Missing Blank Line separator, <220> field identifier  
L:802 M:283 W: Missing Blank Line separator, <400> field identifier  
L:861 M:283 W: Missing Blank Line separator, <220> field identifier  
L:863 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:17 differs:18  
L:863 M:283 W: Missing Blank Line separator, <400> field identifier  
L:872 M:283 W: Missing Blank Line separator, <220> field identifier  
L:874 M:283 W: Missing Blank Line separator, <400> field identifier  
L:883 M:283 W: Missing Blank Line separator, <220> field identifier  
L:885 M:283 W: Missing Blank Line separator, <400> field identifier  
L:894 M:283 W: Missing Blank Line separator, <220> field identifier  
L:896 M:283 W: Missing Blank Line separator, <400> field identifier  
L:905 M:283 W: Missing Blank Line separator, <220> field identifier  
L:907 M:283 W: Missing Blank Line separator, <400> field identifier  
L:917 M:283 W: Missing Blank Line separator, <220> field identifier  
L:919 M:283 W: Missing Blank Line separator, <400> field identifier  
L:928 M:283 W: Missing Blank Line separator, <220> field identifier  
L:930 M:283 W: Missing Blank Line separator, <400> field identifier

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Input Set : A:\Sequence.txt  
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L:976 M:283 W: Missing Blank Line separator, <220> field identifier  
L:978 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1066 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1068 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1126 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1128 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1151 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:26  
L:1330 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:32  
L:1356 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:33  
L:1383 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:34  
L:1409 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:35  
L:1436 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:36  
L:1463 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:37  
L:1490 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:38  
L:1517 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:39  
L:1542 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:40